

Application Number: 10/709,493

Abstract of Disclosure:

The current invention is a new type of aircraft, using engine to rotate the rotating-bodies, while moving the aircraft perpendicular to their rotation-axis, to generate lift-force. With flexible connection, rotating-bodies can swipe backward, reducing the turbulence behind them and also changing the angle at which the wind hits the front of the rotating-bodies, all reducing the drag-force. By generating more lift force at lower speeds, and by less drag-force, this aircraft can take-off and accelerate faster, with less or no need to runway. In addition, using inflatable rotating-bodies, when deflated, reduces the machine's volume and makes it easier to transport. Rotating-bodies higher than the center-of-gravity and/or point of effect of thrust-force, and swiping the rotating-bodies backward, all help neutralize the reaction-force of rotation of the rotating-bodies. Stability, due to gyro effect of the rotating-bodies, and safe landing with less or no thrust-force, are other specificities.